

8 MAINTENANCE TIPS FOR BETTER RELIABILITY

A smart maintenance plan will help your Cat® Hydraulic Mining Shovels deliver reliable service, day in and day out.

Here are eight things your maintenance people can do to keep your shovel fleet up and running, even under the harshest mine-site conditions.



1 INSPECT & REPORT FINDINGS

Perform a daily inspection. Look for developing issues and machine damage. Establish a robust process to translate daily inspection findings into maintenance plans.

2 MONITOR FLUID CONDITIONS

Use Caterpillar-approved fluids appropriate for the climate. Monitor contamination levels. Preheat fluids in cold climates and avoid high temperature warnings to maximize component durability.



3 TALK TO THE OPERATOR

Nobody spends more time on the machine. The operator can be your eyes and ears on the shovel.

4 MAINTAIN APPROPRIATE TOOLS & SPARE PARTS

HMS maintenance typically occurs in the mining pit. To minimize repair downtime, stock service trucks with appropriate tools and strategic spare parts, such as prefilled grease hoses. A recommended tool list is available on dealer.cat.com. Recommended spare parts lists are included in the HMS product support guidebook on sis.cat.com (Media #EM019081).



5 PRACTICE PROACTIVE MAINTENANCE AND ADDITIONAL INSPECTIONS

Even minor items like hoses have a predictable life and can be changed before they fail — which helps avoid unplanned downtime. Combining additional inspections — such as structural inspections — with other maintenance activities will minimize overall maintenance downtime. Inspection tools like Cat inspect can improve inspection efficiency.

6 MANAGE YOUR BACKLOG

Use backlog management to keep your HMS in the best possible operating condition.



7 VERIFY HYDRAULIC PRESSURE SETTINGS

Correct hydraulic pressure settings are a crucial factor in machine performance. Hydraulic troubleshooting should always start with a pressure check.

8 MAINTAIN A CLEAN MACHINE

A clean machine improves emerging issue detection, avoids overheating and cooler plugging, and creates a maintenance-friendly environment.



BUILD YOUR KNOWLEDGE

Looking for more ways to improve the maintenance of your shovel fleet? Contact your Cat dealer for service and maintenance recommendations.